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412 Rec'd PC/PTO

19 MAY 2000

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## IN THE US PATENT AND TM OFFICE



Appn. Number: 09/381,588  
 Filing Date: 09/20/99  
 Applicant: Shattil, Steve  
 Appn. Title: Multiple Access Method and System

PCT

Mailed 2000, May 19  
 Boulder, CO 80303

## AMENDMENT A

Commissioner of Patents and Trademarks  
 Washington, District of Columbia 20231

Sir:

Pursuant to Rule 312, applicant respectfully requests that the above application be amended as follows:

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## SPECIFICATION

Page 1, line 2, insert: —This is a continuing application of PCT/US99/02838, Filed February 10, 1999, which is a continuation-in-part of Ser. Nr.09/022,950, Filed 1998 February 12, now Patent Nr. 5,955,992.—”

Page 2, line 22, after "error correction." insert:

“— U.S. Pat. Nos. 5,519,692 and 5,563,906 describe geometric harmonic modulation (GHM) in which preamble and traffic waveforms are created from multiple carrier frequencies (tones). The waveforms comprise tones incorporating a binary phase code where signal phases are 0 or  $-\pi/2$ . The binary phase offsets, which are applied to the tones, provide the spreading codes. Orthogonality of GHM signals is realized upon correlation with a reference signal at a receiver. A preamble carrier waveform is constructed by summing the tones. Therefore, the preamble signals are similar to MC-CDMA signals.

Each receiver monitors the preamble signals for its own phase code and then despreads and decodes the appended traffic waveforms. The traffic waveforms are products of the tones. The receiver generates a reference waveform from a product of tones having phase offsets that correspond to the receiver's phase code. The reference waveform is correlated with the received

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 02 FC:965

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 156.00 OP